

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (canceled)

2. (currently amended) ~~The data transmission method as claimed in claim 1, A~~
data transmission method for transmitting a serial digital transfer interface transmission
packet in which an interval of each line of a video frame comprises an end synchronizing
code area into which an end synchronizing code is inserted, an ancillary data area into
which ancillary data is inserted, a start synchronizing code area into which a start
synchronizing code is inserted and a payload area into which main data comprising video
data and/or audio data is inserted, said data transmission method comprising:

a first step of inserting into said payload area first data containing extension
data having editing point information at the picture unit of said video data and second data
containing said main data; and

a second step of transmitting said transmission packet in which said first
data and said second data have been inserted into said payload area at the first step in the
form of serial data,

wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

3. (canceled)

4. (canceled)

5. (canceled)

6. (currently amended) ~~The data reception method as claimed in claim 5,~~

A data reception method for receiving a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area into which first data containing main data comprising video data and/or audio data and second data containing extension data having editing point information at the picture unit of said video data are inserted, said data reception method comprising:

a first step of receiving said transmission packet;

a second step of extracting said main data and said extension data from said transmission packet received at said first step; and

a third step of transferring to a recording apparatus at least said editing point information within said extension data extracted at said second step and said main data extracted at said second step.

wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

7. (original) The sound output method of outputting sounds based on audio data extracted from a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area into which first data containing main data comprising video data and/or audio data and second data containing extension data having editing point information at the picture unit of said video data are inserted, said sound output method comprising:

a first step of outputting sounds based on audio data within said main data extracted from said transmission packet;

a second step of detecting an editing point from said editing point information within said extension data extracted from said transmission packet; and

a third step of muting sounds outputted at said first step in correspondence with an editing point detected at said second step.

8. (original) The sound output method as claimed in claim 7, wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said editing point, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

9. (original) A data reception method of receiving a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area into which first data containing main data comprising video data and/or audio data and second data containing data of a count value counted at the picture unit of said video data at every picture unit and extension data having editing point information are inserted, said data reception method comprising:

a first step of receiving said transmission packet;

a second step of extracting said main data and said extension data from said transmission packet received at said first step;

a third step of detecting an editing point from a discontinuity of the data of said count value within said extension data extracted at said second step; and

a fourth step of correcting said editing point information within said extension data extracted at said second step in correspondence with said editing point detected at said third step.

10. (original) The data reception method as claimed in claim 9, wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead and behind said object picture unit.

11. (original) The data reception method as claimed in claim 9, wherein the area within said payload area into which the data of said count value is inserted is located near said start synchronizing code area.

12. (canceled)

13. (currently amended) ~~The data transmission apparatus as claimed in claim 12,~~

A data transmission apparatus for transmitting a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area in which main data comprising video data and/or audio data is inserted, said data transmission apparatus comprising:

means for inserting into said payload area first data containing extension data having editing point information at the picture unit of said video data and second data containing said main data; and

means for transmitting said transmission packet in which said first data and said second data have been inserted into said payload area in the form of serial data,

wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

14. (canceled)

15. (canceled)

16. (currently amended) ~~The data reception apparatus as claimed in claim 15, A~~
data reception apparatus for receiving a serial digital transfer interface transmission packet
in which an interval of each line of a video frame comprises an end synchronizing code
area into which an end synchronizing code is inserted, an ancillary data area into which
ancillary data is inserted, a start synchronizing code area into which a start synchronizing
code is inserted and a payload area into which first data containing main data comprising
video data and/or audio data and second data containing extension data having editing
point information at the picture unit of said video data are inserted, said data reception
apparatus comprising:

means for receiving said transmission packet;

means for extracting said main data and said extension data from said
received transmission packet; and

means for transferring to a recording apparatus at least said editing point
information within said extension data extracted from said transmission packet and said
main data extracted from said transmission packet,

wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

17. (original) A sound output apparatus for outputting sounds based on said audio data extracted from a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area into which first data containing main data comprising video data and/or audio data and second data containing extension data having editing point information at the picture unit of said video data, said sound output apparatus comprising:

means for outputting sounds based on audio data within said main data extracted from said transmission packet;

means for detecting an editing point from said editing point information within said extension data extracted from said transmission packet; and

means for muting said outputted sounds in correspondence with said detected editing point.

18. (original) The sound output apparatus as claimed in claim 17, wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said editing point information is unrelated to an editing point, whether or not said editing point is located ahead of said object picture unit, whether or not said editing point is located behind said object picture unit and whether or not said editing point is located ahead of and behind said object picture unit.

19. (original) The data reception apparatus for receiving a serial digital transfer interface transmission packet in which an interval of each line of a video frame comprises an end synchronizing code area into which an end synchronizing code is inserted, an ancillary data area into which ancillary data is inserted, a start synchronizing code area into which a start synchronizing code is inserted and a payload area into which first data containing main data comprising video data and/or audio data and second data containing data of a count value counted at the picture unit of said video data at every picture unit and extension data having editing point information are inserted, said data reception apparatus comprising:

means for receiving said transmission packet;

means for extracting said main data and said extension data from said received transmission packet;

means for detecting an editing point from a discontinuity of the data of said count value within said extension data extracted from said transmission packet; and

means for correcting said editing point information within said extension data extracted from said transmission packet in correspondence with said detected editing point.

20. (original) The data reception apparatus as claimed in claim 19, wherein said editing point information uses said picture unit having said editing point information as an object picture unit and indicates whether or not said object picture unit is unrelated to an

editing point, whether or not said editing point is located ahead of said object picture unit,
whether or not said object picture unit is located behind said object picture unit and
whether or not said editing point is located ahead of and behind said object picture unit.